

PATENT SPECIFICATION

407,989

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PROVISIONAL SPECIFICATION.

A New or Improved Appliance for Facilitating the Selection of Golf Clubs.

I, WILLIAM HEYS, of 9, Princess Avenue, Sedgley Park, Prestwich, Manchester, a British subject, do hereby declare the nature of this invention to be as follows:—

This invention has reference to an appliance for facilitating the selection of golf clubs.

Golf clubs are generally made with shafts of various standard lengths and with the heads at various standard angles to the shafts to suit persons of different heights. Nevertheless, it is really only very seldom that any standard club will enable a given person to obtain the greatest possible accuracy when playing with it. Not infrequently it happens that, though the length of the shaft of the club suits the person, the angle of the head to the shaft is not such that at the moment of striking the ball the sole of the head is parallel to the ground, which it should be if the ball is to be struck accurately.

The object of the invention is to provide an appliance by means of which the angle between the shaft and head of a club to best suit or "fit" a given person can be easily and accurately determined.

An appliance in accordance with the invention comprises a shaft provided with a head which at the heel is hinged or pivoted to the shaft so that it is capable of adjustment to vary its angle to the shaft, means for clamping the head in any adjusted position and a scale or indicating means for showing the angle between the head and the shaft. Prefer-

ably, the shaft of the appliance will be telescopic or otherwise suitably adjustable in length.

In one form of appliance in accordance with the invention the shaft has mounted on it near its lower end a quadrant or scale at the centre of which is pivoted a lever. One arm of the lever is connected by a link with the toe of the head. The other arm of the lever has mounted on it a slidable spring-pressed block or knob provided with a tooth or teeth adapted to co-operate with complementary teeth formed on the quadrant or scale to hold the lever in desired adjusted positions.

In using the appliance the head will be adjusted, by manipulation of the lever, until the sole is parallel with the ground, while the appliance is held by the person to be "fitted" in the position of striking or addressing a ball. The head will then be clamped in the adjusted position by the block or knob when the angle between the head and the shaft can be read on the quadrant or scale which will be calibrated in degrees and/or in numerical or other symbols denoting standard angles.

Having by the appliance ascertained the angle that will best suit him, the person may then be able to select appropriate clubs from those of standard make, or, if this is not possible, to have correctly angled clubs made.

Dated this 26th day of August, 1932.
HEYS, SON, DAVIES & PATTISON,
Agents for the Applicant.

COMPLETE SPECIFICATION.

A New or Improved Appliance for Facilitating the Selection of Golf Clubs.

I, WILLIAM HEYS, of 9, Princess Avenue, Sedgley Park, Prestwich, Manchester, a British subject, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following [Price 1/-]

statement:—

This invention has reference to an appliance for facilitating the selection of golf clubs.

Golf clubs are generally made with shafts of various standard lengths and with the heads at various standard

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angles to the shafts to suit persons of different heights. Nevertheless, it is really only very seldom that any standard club will enable a given person to obtain the greatest possible accuracy when playing with it. Not infrequently it happens that, though the length of the shaft of the club suits the person, the angle of the head to the shaft is not such that at the moment of striking the ball the sole of the head is parallel to the ground, which it should be if the ball is to be struck accurately.

The object of the invention is to provide an appliance by means of which the angle between the shaft and head of a club to best suit or "fit" a given person can be easily and accurately determined.

An appliance in accordance with the invention comprises a shaft provided with a head which at the heel is hinged or pivoted to the shaft so that it is capable of adjustment to vary its angle to the shaft, means for clamping the head in any adjusted position and a scale or indicating means for showing the angle between the head and the shaft. Preferably, the shaft of the appliance will be telescopic or otherwise suitably adjustable in length.

One form of appliance in accordance with the invention is illustrated in the accompanying drawings in which Fig. 1 is a front elevation of the appliance, Fig. 2 is an elevation at right angles to Fig. 1 and Fig. 3 is a rear elevation.

Referring to the drawings, the appliance illustrated comprises a steel shaft made in two parts 4 and 5 of which the part 4 is telescopic on the part 5 and is adapted to be clamped in desired adjusted positions by means of a clamping screw 6 which passes through a slot 7 formed in the part 4 and engages a nut 8 provided on the part 5. The part 4 is marked with graduations 9 which when read in conjunction with the lower end 10 of the part 4 show the length to which the shaft has been adjusted. The part 4 is provided with the usual "grip" 11.

To the lower end of the shaft is fitted a head 12 which at the heel is pivoted at 13 to the hovel 14 or equivalent by means of which it is mounted on the shaft. The particular head 12 illustrated is that of a golf club known as an iron, but it will be understood that this is only by way of example and that this head may be adapted to be substituted by the head of any other golf club, or different appliances may be provided with different heads. Near the toe of the head 12 is pivotally connected at 15 one end of a link 16, the other end of which is pivoted to the shorter arm of a lever 17 which

is pivoted on a bolt 18 mounted in the shaft part 5 and provided with a clamping nut 19. The longer arm of the lever 17 serves as a pointer which moves over and co-operates with a suitably calibrated scale 20, mounted on the shaft part 5 by means of screws 21, in such manner as to indicate on the scale the angle between the sole 22 of the head 12 and the axis of the shaft, in any given position of the head.

When using the appliance, the shaft parts 4 and 5 will be adjusted until the shaft is of the length which best suits the person to be "fitted" and the head 12 will be manipulated about its pivot 13 until the sole 22 of the head 12 is parallel with the ground, while the appliance is held in the position of striking or addressing a ball, the shaft parts and head being then clamped in the adjusted positions by the clamping screw 6 and nut 19. The length of the shaft and the angle of the lie of the head can then be read from the calibrations 9 and the scale 20.

After having ascertained by means of the appliance described the length of shaft and the angle of lie of the head that will best suit him, the person may then be able to select appropriate clubs from those of standard make, or, if this is not possible, to have such clubs specially made.

I am aware that it has previously been proposed to pivot the head of a golf club to the shaft so that it is capable of angular adjustment to vary the angle between it and the shaft to suit the stance of individual players, means being provided for securely clamping the head in desired adjusted positions, and a graduated scale being provided for facilitating the setting of the head at desired angles. I am also aware that it has been proposed to make the shaft of a golf club adjustable in length by making the shaft in two parts telescopic one within the other and adapted to be clamped in desired adjusted positions by means of a clamping screw. My invention distinguishes from these prior proposals in that it does not contemplate a club for use in actual play but an appliance for facilitating the selection of clubs to best suit individual requirements.

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is:—

1. An appliance for facilitating the selection of golf clubs, comprising a shaft, a head pivoted to the shaft so as

to be capable of adjustment to vary its angle thereto, and means for indicating the angle between the head and the shaft in any adjusted position of the head.

5 2. An appliance according to Claim 1, in which a clamping means is provided for clamping the head in desired adjusted positions.

10 3. An appliance according to either of the preceding Claims, in which the angle indicating means comprises a scale mounted on the shaft, and a pivoted pointer connected with the head and adapted to operate in conjunction with
15 the scale to indicate thereon the angle between the head and the shaft in any position of the head.

20 4. An appliance according to any of the preceding Claims, in which the shaft is of adjustable length and means are

provided for clamping the shaft in adjusted lengths and for indicating such lengths.

5. An appliance according to Claim 5, in which the shaft is made in two parts
25 telescopic one within the other.

6. An appliance for facilitating the selection of golf clubs, substantially as herein set forth with reference to and as illustrated in the accompanying draw-
30 ings.

Dated this 23rd day of August, 1933.
HEYS, SON, DAVIES & PATTISON,
52, Deansgate Arcade, Manchester, 3,
Agents for the Applicant.

Reference has been directed, in pursuance of Section 7, Sub-section (4), of the Patents and Designs Act, 1907 to 1932, to Specification No. 241,091.

[This Drawing is a reproduction of the Original on a reduced scale.]

